

INTERNATIONAL SEARCH REPORT

International Application No.
PC1/US2004/006961

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07F9/40 C07F9/54 C07C305/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07F C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2004/016631 A (ROBERTSON ALLAN J ; ZHOU YUEHUI (CA); BAUMANN DOUGLAS (CA); CYTEC CANA) 26 February 2004 (2004-02-26) page 2, line 23 - page 5, line 6 page 8, line 30 - page 9, line 4 page 11, line 22 - page 15, line 6; examples 1-6 page 16, line 25 - page 24; claims 1-13; example 10	1-56
Y	WO 02/079212 A (ROBERTSON ALLAN JAMES ; SEDDON KENNETH RICHARD (IE); CYTEC TECH CORP () 10 October 2002 (2002-10-10) page 36 - page 39; claims 1-18 ----- -/--	1-56

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the International filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the International search

30 July 2004

Date of mailing of the International search report

05/08/2004

Name and mailing address of the ISA

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PCT/US2004/006961

G.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 01/87900 A (ROBERTSON ALLAN JAMES ; CYTEC TECH CORP (US)) 22 November 2001 (2001-11-22)</p> <p>page 6, line 21 - line 30 page 9; examples 1,2 page 10; table 1 page 18 - page 19; claims 1-6,8,9,11-14 -----</p>	<p>1-5, 15-22, 30-37, 50,53,54</p>
X	<p>WO 03/020843 A (ROBERTSON ALLAN JAMES ; EARLE MARTYN JOHN (GB); HARDACRE CHRISTOPHER ()) 13 March 2003 (2003-03-13) page 21; claim 2 page 23, line 4 - line 5; claim 8 -----</p>	<p>30-37, 49-54</p>
Y	<p>EP 0 895 997 A (BASF AG) 10 February 1999 (1999-02-10) page 4, line 40 - page 5, line 50; claims 1-7 -----</p>	<p>1-56</p>
Y	<p>EP 0 675 130 A (SHINETSU CHEMICAL CO) 4 October 1995 (1995-10-04) page 6; claims 1,2 -----</p>	<p>1-56</p>
Y	<p>KANAZAWA A ET AL: "POLYMERIC PHOSPHONIUM SALTS AS A NOVEL CLASS OF CATIONIC BIOCIDES. II. EFFECTS OF COUNTER ANION AND MOLECULAR WEIGHT ON ANTIBACTERIAL ACTIVITY OF POLYMERIC PHOSPHONIUM SALTS" JOURNAL OF POLYMER SCIENCE, POLYMER CHEMISTRY EDITION, JOHN WILEY AND SONS. NEW YORK, US, vol. 31, no. 6, 1993, pages 1441-1447, XP001007322 ISSN: 0360-6376 the whole document -----</p>	<p>1-56</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/006961

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004016631	A	26-02-2004	CA 2398682 A1 WO 2004016631 A1	16-02-2004 26-02-2004
WO 02079212	A	10-10-2002	CA 2343456 A1 BR 0208199 A EP 1373280 A1 WO 02079212 A1 US 2004106823 A1	30-09-2002 02-03-2004 02-01-2004 10-10-2002 03-06-2004
WO 0187900	A	22-11-2001	CA 2308896 A1 AU 5550401 A EP 1287007 A1 WO 0187900 A1	18-11-2001 26-11-2001 05-03-2003 22-11-2001
WO 03020843	A	13-03-2003	CA 2356709 A1 WO 03020843 A1	05-03-2003 13-03-2003
EP 0895997	A	10-02-1999	DE 19734446 A1 DE 59806098 D1 EP 0895997 A1 ES 2186065 T3 JP 11130787 A US 2002128516 A1 US 6187959 B1 US 6433226 B1	11-02-1999 12-12-2002 10-02-1999 01-05-2003 18-05-1999 12-09-2002 13-02-2001 13-08-2002
EP 0675130	A	04-10-1995	JP 3467307 B2 JP 7267970 A US 5481040 A DE 69514133 D1 DE 69514133 T2 EP 0675130 A2	17-11-2003 17-10-1995 02-01-1996 03-02-2000 25-05-2000 04-10-1995